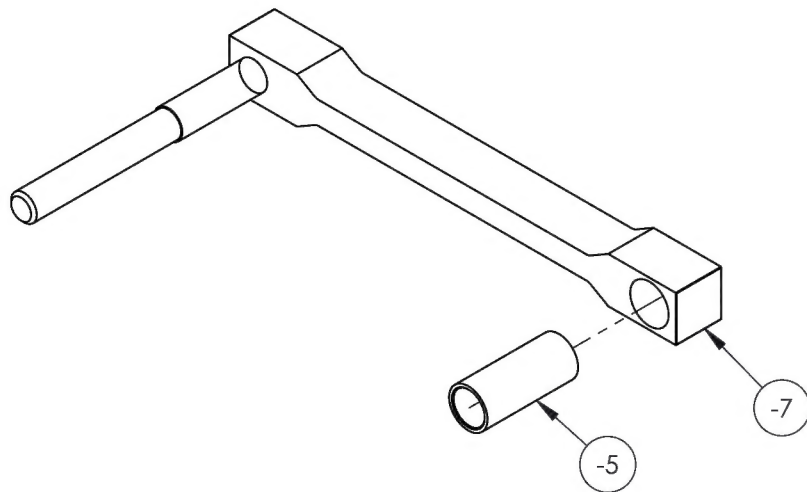


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-1 CH'D HOLE FROM Ø1.25 MADE REF. DIM P.F. -2, CH'D Ø1.70 TO REF. DIM P.F. -5. -2 CH'D O.D. FROM Ø1.25.	10/10/2011	RJC	GE
2		-1 ADDED SIDE VIEW AND CONTROL TOLERANCES TO (Ø1.240) 7 (Ø1.70) DIMS. -2 CH'D DIM FROM Ø1.242 +.000/-0.001. -5 ADDED CONTROL TOLERANCES TO Ø1.70 DIM.	5/9/2012	RJC	GE
3		-2 ADDED TOTAL RUNOUT CONTROL. -5 CH'D FINISH WAS BLACK ZINC IS NONE.	5/6/2014	DPD	GE
4	17-0012	UPDATED TO NEW DRAFTING STANDARD. CH'D TITLE WAS ENGINE ALIGNMENT TOOL MODEL 330 IS ENGINE ALIGNMENT TOOL. ADDED USED ON MODEL 330. -1 CH'D DIM WAS Ø1.240 +.001/-0.000 $\left[\begin{array}{c} \text{Ø} \text{ .001} \text{ A} \end{array} \right]$ IS Ø1.2406/1.2400 (P.F. -2) $\left[\begin{array}{c} \text{Ø} \text{ .001} \text{ A} \end{array} \right]$ WAS Ø1.700 +.001/-0.000 IS Ø1.700 +.001/-0.000 (S.F. -5). WAS 3.000 TYP. IS 4X 3.00. -2 CH'D DIM WAS Ø1.240 +.0024/+0.0018 $\left[\begin{array}{c} \text{Ø} \text{ .001} \text{ IS} \end{array} \right]$ Ø1.2413/1.2409 (P.F. -1) $\left[\begin{array}{c} \text{Ø} \text{ .001} \text{ A} \end{array} \right]$. ADDED DATUM A. -5 CH'D DIM WAS Ø1.700 -0.0010/-0.0016 IS Ø1.6990/1.6984 (S.F. -1). -7 CH'D NOTE 1 WAS MASK THIS AREA BEFORE FINISHING TOOL IS DO NOT POWDER COAT THIS AREA.	4/14/2017	RJC	JAG

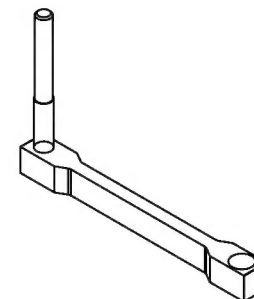
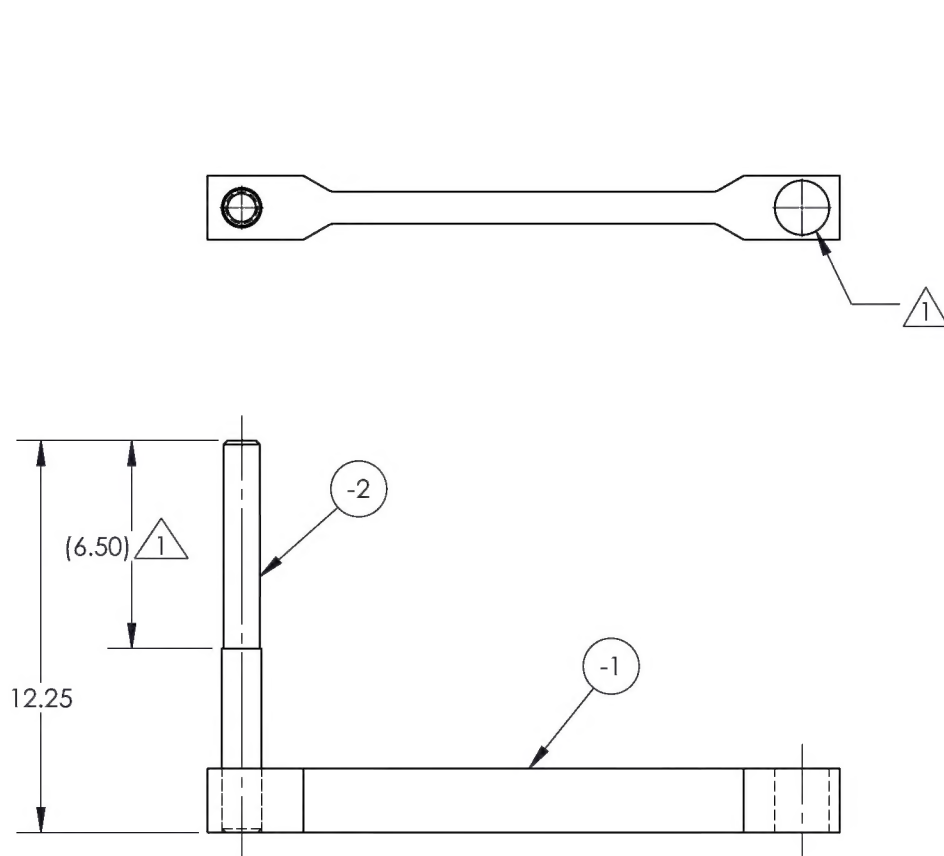


ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	1		-1		BAR	6061		3
	1		-2		BAR	6061		4
			-5	1	TUBE	304 S.S.		5
	X		-7	1	BAR ASSEMBLY			2
	ASSY -7							

DART AEROSPACE	
TITLE ENGINE ALIGNMENT TOOL	
DWG NO. 269T3303	REV 4
MAT'L REAT TREAT FINISH SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: RJC 04/17/2017 CHECKED: DD 04/17/2017 OPPTS APPR: AA 05/05/2017 QA APPR: JL 05/10/2017	
APPROVED: _____ SCALE 1:6 DATE 4/17/2017 SHEET 1 OF 5	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	17-0012	-7 CH'D NOTE 1 WAS MASK THIS AREA BEFORE FINISHING TOOL IS DO NOT POWDER COAT THIS AREA.	4/14/2017	RJC	JAG



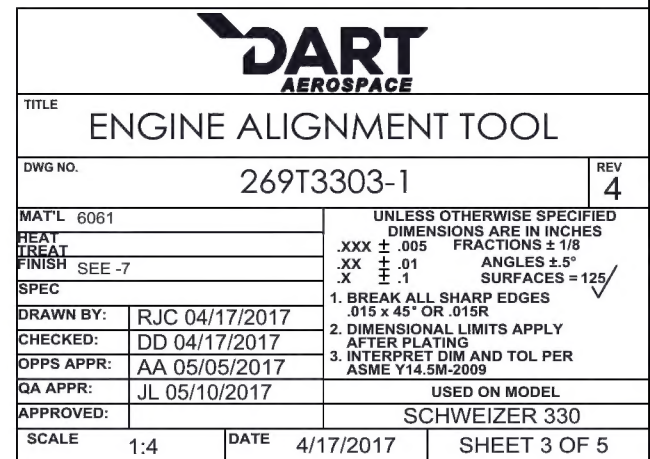
NOTE:

 DO NOT POWDER COAT THIS AREA.



(-7)
BAR ASSEMBLY

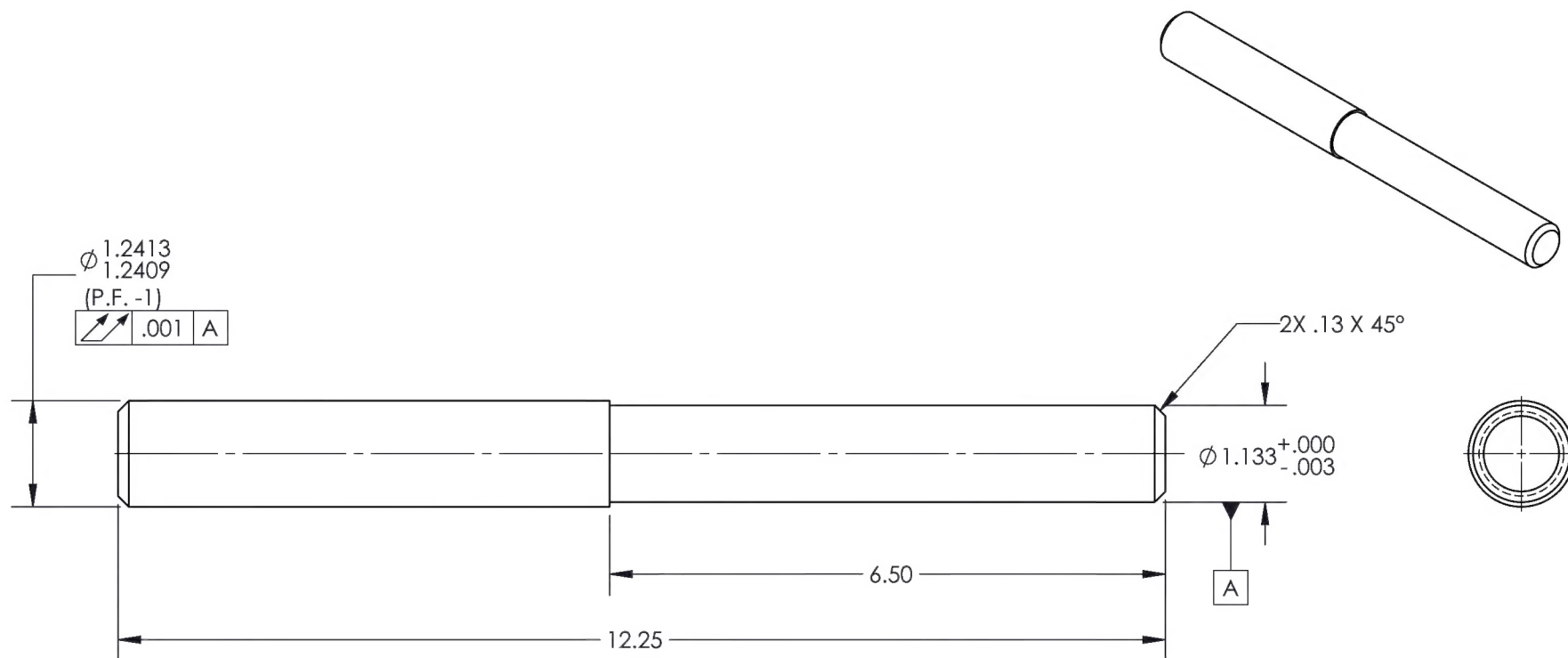
DART AEROSPACE	
TITLE ENGINE ALIGNMENT TOOL	
DWG NO. 269T3303-7	REV 4
MAT'L REPT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DRAWN BY: RJC 04/17/2017	POWDER COAT YELLOW
CHECKED: DD 04/17/2017	FED #13538
OPPS APPR: AA 05/05/2017	
QA APPR: JL 05/10/2017	
APPROVED:	USED ON MODEL
	SCHWEIZER 330
SCALE 1:6	DATE 4/17/2017
	SHEET 2 OF 5

REVISIONS							
REV	ECR	DESCRIPTION			DATE	INITIAL	APPROVED
1		-1 CH'D HOLE FROM Ø1.25 MADE REF. DIM P.F. -2. CH'D Ø1.70 TO REF. DIM P.F. -5.			10/10/2011	RJC	GE
2		-1 ADDED SIDE VIEW AND CONTROL TOLERANCES TO (Ø1.240) 7 (Ø1.70) DIMS.			5/9/2012	RJC	GE
4	17-0012	-1 CH'D DIM WAS Ø1.240 +.001/-0.000 // Ø .001 A IS Ø1.2406/1.2400 (P.F. -2) // Ø .001 A WAS Ø1.700 +.001/-0.000 IS Ø1.700 +.001/-0.000 (S.F. -5). WAS 3.000 TYP. IS 4X 3.00.			4/14/2017	RJC	JAG



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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-2 CH'D O.D. FROM Ø1.25.	10/10/2011	RJC	GE
2		-2 CH'D DIM FROM Ø1.242 +.000/- .001.	5/9/2012	RJC	GE
3		-2 ADDED TOTAL RUNOUT CONTROL.	5/6/2014	DPD	GE
4	17-0012	-2 CH'D DIM WAS Ø1.240 +.0024/+ .0018  .001 IS Ø1.2413/1.2409 (P.F. -1)  .001 A	4/14/2017	RJC	JAG



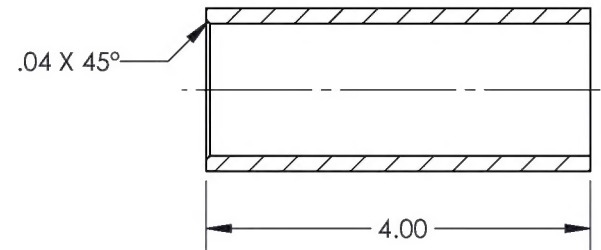
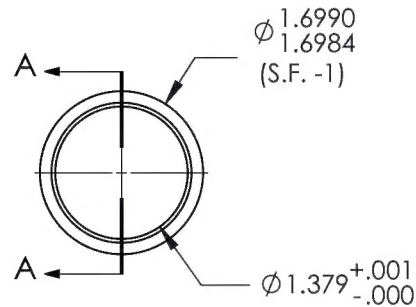
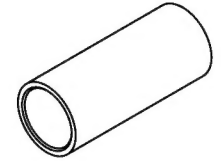
(-2)

BAR

DART AEROSPACE	
TITLE ENGINE ALIGNMENT TOOL	
DWG NO. 269T3303-2	REV 4
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -7	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: RJC 04/17/2017	1. BREAK ALL SHARP EDGES
CHECKED: DD 04/17/2017	.015 x 45° OR .015R
OPPS APPR: AA 05/05/2017	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
QA APPR: JL 05/10/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
APPROVED:	USED ON MODEL
SCALE 1:2	SCHWEIZER 330
DATE 4/17/2017	SHEET 4 OF 5

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-5 ADDED CONTROL TOLERANCES TO Ø1.70 DIM.	5/9/2012	RJC	GE
3		-5 CH'D FINISH WAS BLACK ZINC IS NONE.	5/6/2014	DPD	GE
4	17-0012	-5 CH'D DIM WAS Ø1.700 -0.010/-0.016 IS Ø1.6990/1.6984 (S.F. -1).	4/14/2017	RJC	JAG



SECTION A-A

(-5)

TUBE

DART AEROSPACE	
TITLE ENGINE ALIGNMENT TOOL	
DWG NO. 269T3303-5	REV 4
MAT'L 304 S.S.	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± 5°
	.X ± .1 SURFACES = 125
DRAWN BY: RJC 04/17/2017	1. BREAK ALL SHARP EDGES
CHECKED: DD 04/17/2017	.015 x 45° OR .015R
OPPS APPR: AA 05/05/2017	2. DIMENSIONAL LIMITS APPLY
QA APPR: JL 05/10/2017	AFTER PLATING
APPROVED:	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 1:2	USED ON MODEL
DATE 4/17/2017	SCHWEIZER 330
	SHEET 5 OF 5